



PO/GB 2003 / 003844



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(b)

The Patent Office
Concept House
Cardiff Road
Newport
South Wales
NP10 8QQ

REC'D 23 OCT 2003

WIPO PCT

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

I also certify that the attached copy of the request for grant of a Patent (Form 1/77) bears an amendment, effected by this office, following a request by the applicant and agreed to by the Comptroller-General.

In accordance with the Patents (Companies Re-registration) Rules 1982, if a company named in this certificate and any accompanying documents has re-registered under the Companies Act 1980 with the same name as that with which it was registered immediately before re-registration save for the substitution as, or inclusion as, the last part of the name of the words "public limited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the name with which it is so re-registered.

In accordance with the rules, the words "public limited company" may be replaced by p.l.c., plc, P.L.C. or PLC.

Re-registration under the Companies Act does not constitute a new legal entity but merely subjects the company to certain additional company law rules.

Signed

Dated 14 October 2003

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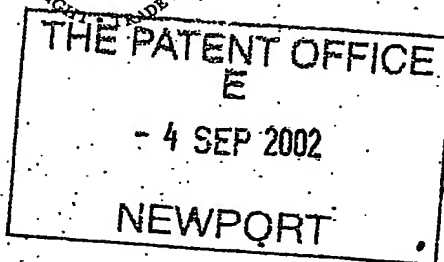


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1/77

Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)



The Patent Office

Cardiff Road
Newport
South Wales
NP10 8QQ

1. Your reference

2. Patent application number
(The Patent)

0220510.2

4 SEP 2002

3. Full name, address and postcode of the or of each applicant (underline all surnames)

MR KEVIN JOHN O'KANE
27 FELTON STREET

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

1719172001

FELTON
NR. BRISTOL
B40 9YL

4. Title of the invention

COMPOSITE BOARD

form 5/77
10-10-03

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Withers & Rogers
Goldings House
2 Hays Lane
LONDON

Patents ADP number (if you know it)

SEI 2HW

1776001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
(if you know it)

Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- a) any applicant named in part 3 is not an inventor, or
 - b) there is an inventor who is not named as an applicant, or
 - c) any named applicant is a corporate body.
- See note (d)

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Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description

Claim(s)

Abstract

Drawing(s)

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination and search (*Patents Form 9/77*)

Request for substantive examination (*Patents Form 10/77*)

Any other documents
(please specify)

11. I/We request the grant of a patent on the basis of this application.

Signature *Kevin O'Kane*

Date *4-09-02*

12. Name and daytime telephone number of person to contact in the United Kingdom *KEVIN O'KANE 07960 419222*

Warning

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

Notes

- a) If you need help to fill in this form or you have any questions, please contact the Patent Office on 08459 500505.
- b) Write your answers in capital letters using black ink or you may type them.
- c) If there is not enough space for all the relevant details on any part of this form, please continue on a separate sheet of paper and write "see continuation sheet" in the relevant part(s). Any continuation sheet should be attached to this form.
- d) If you have answered 'Yes' Patents Form 7/77 will need to be filed.
- e) Once you have filled in the form you must remember to sign and date it.
- f) For details of the fee and ways to pay please contact the Patent Office.

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PANEL BOARD PATENT APPLICATION

This invention relates to a composite lightweight panel board for use in the construction industry.

The board is made up from a combination of PUR foam, cement and water, bound on one or more face with high Zirconia alkali resistant glass fibre, known as G.R.C (Glass Reinforced Cement). This fibre can be applied as a chopped strand sprayed in a matrix of cement and sand or alternatively as a ready-made mesh.

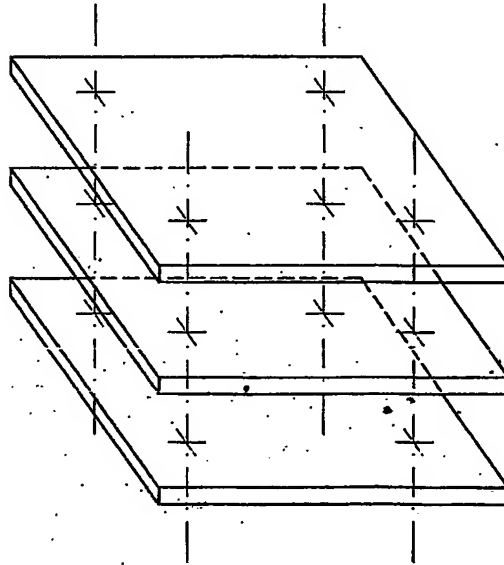
The intention is for the board to be used as a permanent formwork for use in constructing walls, floors and roofs for buildings and other structures as an alternative to more conventional building techniques employing timber, masonry or steelwork materials.

With respect to the wall construction the intention is to form a 2 void building element using 3 sections of the board tied together as illustrated in the accompanying sketch No.100. The outer void formed would be filled with a self compacting concrete, either mass or reinforced depending on the application, to provide the structural component for the resulting structure. The inner void would be filled with a lightweight air entrained concrete, that would also contain PUR foam, which would provide the thermal insulation required to achieve the necessary U-values.

An important part of the process to produce the board is to pre-mix the PUR foam with water using a high shear mixer, and allow the resultant compound to rest undisturbed for a period of time. This rest period allows the foam/water mix to expand to its maximum potential before continuing, and hence eliminates the risk of further expansion on addition of the remaining water and cement needed as part of the next stage of the board's production.

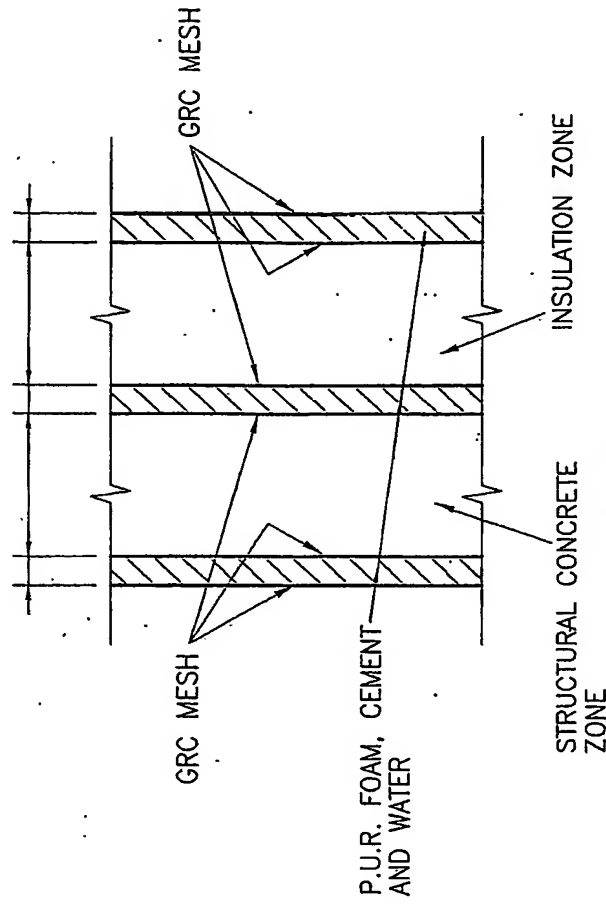
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WALL PANEL RESTRAINT
SYSTEM TO BE DETERMINED



ISOMETRIC VIEW n.t.s.

OPTIONAL PANEL & VOID
DIMENSIONS TO BE DECIDED



TYPICAL SECTION

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PCT Application

GB0303844

